DocName: WFD_Level1_A2AT_SLR1

	Assessment COVER SHEET
Option ID:	WFD_A2AT_Route_Western
Option Name: Option Description:	Western Route
Water company	SRO
Is there enough information to complete the assessment? (Y/N)	Υ
If No: What information is lacking? Any further comment appropriate?	
Assessed by:	Charlie Dodd
Assessment Version:	1
Date:	21/06/2022
Checked by:	Rachel Coombes
Date:	14/07/2022
Approved by:	
Date:	

					Overall Poor	Bad	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Poor	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Poor	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
				WFD status	Water Body Chemical Fail Ecological Poor	Fail Rad	Fail Moderate	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail
			1		14/-4		GB105032050340																									
Component	Activity	Construction, Operation or Decommissioning	Assumptions / Mitigations assumed to be in place	Comments	Score in (including Ma	arho Billing Brook	Stanground Lode I	Nene - Islip to tidal	Debden Water	Wicken Water	(Newport to Audley W	Vendon Brook R	Rhee (DS Wendy)	ridge and Potton Br	Whaddon Brook	Mill River	Mel	Rhee (US Wendy)	Stone Brook	Cock Brook	Alconbury Brook I	lington Brook (Trib	Ellington Brook	Colmworth Brook	Begwary Brook bo	otsley and Hen Bro	Duloe Brook	Kym	Diddington Brook us	se (Roxton to Earit	Middle Level St	ort (at Clavering)
Below ground	Construction/repair of new tunnels and conduits	Construction	Tunnels and conduits will be constructed	underground using a non-	1 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Below ground	Construction of below ground structures (shaft/retaining wall) with associated dewatering, with <u>no</u> sensitive groundwater feature within 500m	Construction	the ground reinstated as soon as possible. Appropriate risk assessments will be undertaken for excavation works and dewatering to ensure no adverse impact on groundwater, watercourses, wetland habitats or abstractions. Dewaters will be treated before discharge. Abstraction licences, water		1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Below ground	Presence of new underground structure (tunnel/shaft/retaining wall), with <u>no</u> sensitive groundwater feature within 500m	Operation	activity permits and / or land drainage consents will be obtained as necessary. Land urlantage will be provided on the provided of the provided on the provided on the provided of the provided on the provide		1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Below ground	Construction of below ground structures (shaft/retaining wall) with associated dewatering, within 500m of a sensitive groundwater feature	Construction	maintain flow. KINK ASSESSIMENTS WIT DE UNDERTAKENT KA excavation works and dewatering to ensure no adverse impact on watercourses, wetland habitats or abstractions. If impact likely appropriate mitigation to be put in place. Dewatering discharge will be treated before		2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Below ground	Presence of new underground structure (tunnel/shatt/retaining wall) within 500m of a sensitive groundwater feature	Operation	discharge." Land drainage will be provided on the upgradient side of the scheme such that they will not cause an increase in groundwater flooding risk. This drainage will be discharged into local watercourses to maintain flow.		2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N,	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Below ground	Construction of new cutting with external dewatering with <u>no</u> sensitive groundwater feature within 500m	Construction	Not applicable.		0 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A I	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Below ground	Construction of new cutting with external dewatering within 500m of a sensitive groundwater feature	Construction	Not applicable.		2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Below ground	Construction of new culvert	Construction	At this stage it is not know if any new or modified culvers are required. It is assumed that the pipeline will be below ground but temporary culvers/sculver textensions may be required for plant access, and for access to new AGI. If required, appropriate precautions will be taken when working in the channels of or adjacent to watercourses, providing new culverts and or extending culverts, if required, to appropriately manage flood risk and the potential for deposition of sitt or	have been assumed to be required in all catchments	1 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Catchment management	knowledge exchange or education programme	Operation	release of other forms of suspended material Not applicable.		-1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Catchment management	Changes to land management practices to reduce pesticides, nutrients, sediment or flooding relating to a groundwater source	Operation	Not applicable, it is assumed that once the pipeline has been installed, it will be below ground and current land use and practices will return.		-1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Catchment management	Changes to land management practices to reduce pesticides, nutrients, sediment or	Operation	will return. Not applicable, it is assumed that once the pipeline has been installed, it will be below ground and current land use and practices		-2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Catchment	flooding relating to a surface water source River restoration - construction phase	Construction	ground and current land use and practices will return. There may be minor short term impacts during the construction phase to remove		1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
management Catchment	River restoration - after construction	Operation	temporary watercourse crossings. Not applicable, no river restoration measures are currently proposed for the scheme. It is assumed that any that are proposed will work		-2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	v/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
management Catchment		·	with natural processes and take into account the hydromorphology of the river.												·	·	·		·	·		·		·		·	·			·	·	
management Catchment management	Flow augmentation and licensing Terrestrial habitat creation/management - creation	Operation Construction	Not applicable. Not applicable.		-1 N/A 1 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A I	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Catchment management Catchment	Terrestrial habitat creation/management - management	Operation	Not applicable.		-1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
management Catchment	NFM and wetland creation) - construction Natural water retention measures (including	Construction	Not applicable. Not applicable.		1 N/A -1 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A I	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
management Catchment management	NFM and wetland creation) Fisheries management	Operation	Not applicable.		-2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Catchment management	Sustainable Urban Drainage Systems (SUDS) - construction	Construction	It is assumed that that Contractor will adopt the most suitable methods to manage construction site runoff (attenuation and treatment) and that this may involve bespoke, temporary sustainable drainage techniques alone or in combination with other		1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Catchment management	Sustainable Urban Drainage Systems (SUDS) after construction	Operation	proprietary measures. As the project develops a suitable Drainage Strategy will be required for any new or modified AGIs to ensure that there are appropriate means of capturing, attenuating and discharging surface water runoff from roofs and impermeable surfaces. Although the size of these installations is not likely to be spatially significant, it is assumed that each will involve sustainable drainage systems where appropriate to do so. The		O N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Catchment management	Integrated catchment management Construction of new inverted siphon or drop		Drainage Strategy will need to include a Not applicable.		-2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Culvert	refer culvert Presence of new culvert, in headwaters or on drainage ditches	Construction	Not applicable. At this stage it is not know if any new or modified culverts are required. It is assumed that the pipeline will be below ground but temporary culverts/culvert extensions may be required for plant access, and for access to new AGI. If required, appropriate precautions will be taken when working in the channels of or adjacent to watercourses, providing new culverts and or extending culverts. If		1 N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N,	v/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Culvert	Presence of new culvert mid or lower catchment	Operation	At this stage it is not know if any new or modified culverts are required. It is assumed that the pipeline will be below ground but temporary culverts/culvert extensions may be required for plant access, and for access to new AGI. If required, appropriate precautions will be taken when working in the channels of		2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Culvert	Presence of new inverted siphon or drop inlet culvert	Орегация	Not applicable.		3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Culvert	Removal of significant in channel watercourse structure (such as impassable weir) Removal of existing culverts or other in	Decommissioning	Not applicable.		-2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Culvert Discharge	channel watercourse structure High volume discharge of water with a quality element of higher WFD status than the receiving water body	у		The source of the water for the pipeline is not currently confirmed, but is likely to be SLR. Regardless, water would be treated first before being transferred along the pipeline.	-1 N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N,	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Discharge	element of a lower WFD status than the receiving water body Low volume discharge of water with a quality	Operation	No assumed mitigations		3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Discharge	than the receiving water body	Operation	No assumed mitigations		-1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Discharge	Low volume discharge of water with a quality element of a lower WFD status than the receiving water body Low volume discharge of water with a quality	Operation	No assumed mitigations		2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Discharge	Low volume discharge of water with a quality element of the same WFD status as the receiving water body High volume discharge of water with a quality	Operation	No assumed mitigations		0 0	N/A	N/A	N/A	0	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A I	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Discharge	High volume discharge of water with a quality element of the same WFD status as the receiving water body	Operation	No assumed mitigations		1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A I	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Discharge Discharge	New W I'W discharge to watercourse Transfer of water via a river, canal or aqueduc	Operation ct Operation	Not applicable.		1 N/A 2 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Discharge	New discharge of highly saline water to a coastal or transitional waterbody	Operation	Not applicable.		3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A I	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Discharge Discharge	New discharge of highly saline water to a surface waterbody or groundwater Construction of a new outfall structure to a watercourse, coastal waters, transitional waters or reservoir	Operation Construction	Not applicable. At this stage it is not known whether any new surface water outfalls from new or modified AGIs will be required. Where possible existing outfalls will be used. In not possible, then we recommend that new ditchoourses are constructed to connect to the existing and natural watercourse (if infiltration is not proposed) as this avoids the need for a new engineered outfall with headwall and		3 N/A	N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N,	N/A	N/A N/A	N/A	N/A N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A
			possibly bed scour protection. Construction works will be to a limited section of the bank but will require some vegetation clearance																													
Discharge	Cessation of existing discharge to a watercourse Maintenance and use of river, coastal or		Not applicable.		2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	V/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Discharge Groundwater	transitional water outfall Construction of a new abstraction borehole headworks and associated infrastructure		Not applicable. Not applicable.		0 0 0 N/A	N/A N/A	N/A N/A	N/A N/A	0 N/A	N/A N/A	N/A N/A	N/A N	v/A V/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A I	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	Refurbishment of existing boreholes Drilling new abstraction boreholes	Construction	Not applicable. Not applicable.		0 N/A 0 N/A		N/A N/A	N/A N/A			N/A N/A		N/A N/A	N/A N/A					N/A N/A		N/A N/A	N/A N/A	N/A N/A	N/A N/A	-		N/A N/A			N/A N/A		N/A N/A
Groundwater Habitat	Maintenance and use of abstraction borehole infrastructure Creation of significant areas of riparian behilds.	Ореганоп	Not applicable. Not applicable.		0 N/A -2 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A I	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
navidi	habitats	Construction	пос аррисасте.		N/A	N/A	IVA	TWA	IN/A	TWM	INIA	N,	4,,	IV/A	IVA	TV/A	IVA	N/A	IVA	IVA	.,,,	IVA	IVA	IVA	TVA	N/A	МА	NA	IVA	IVA	IVA	.4/.

			Appropriate precautions will be taken when working in the channels of or adjacent to																												
Habitat	Minor habitat creation Cons	nstruction	watercourses, to appropriately manage flood risk and the potential for deposition of silt or release of other forms of suspended material or pollution within the water column. However, these works will be minor in nature.	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Habitat	Channel realignment with natural bed substrate and good riparian connections Open		Not applicable. 1 Not applicable. Not applicable. 1 Not applicable.	N/A N/A N/A	N/A N N/A N	N/A N/A	N/A N/A N/A	N/A N/A	N/A N/A N/A																						
	Construction or modification of a new pumping station and/or intake from raw water (river or Cons	nstruction	Not applicable.	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Intake	coastal waters) Maintenance and use of river intakes Open Maintenance and use of coastal intakes Open	eration	Not applicable. 1 Not applicable. 1	N/A N/A		N/A N/A			N/A N/A	N/A N/A	N/A N/A		N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A		N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A							
Licence	Use of existing ground and surface water	eration	Not applicable as these issues are covered by the separate WFD assessment for the	N/A	N/A N	v/A	N/A	N/A	N/A																						
	and recent abstraction patterns Use of existing surface water and groundwater		proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered													·			·					·						·	
Licence	abstraction licences, within existing licence conditions but outside of the recent actual		by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Licence	Emergency or drought use of existing surface water or groundwater abstraction outside of Open	eration	Not applicable as these issues are covered by the separate WFD assessment for the	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Licence	licence conditions New or increased surface water abstraction Open	eration	proposed new South LincoInshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the 3	N/A	N/A N	ν/Δ	N/A	N/A	N/A																						
Elocitoo	Ten of more access defined in the contraction of th	orditori	Proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered									.,,,,								47.											
Licence	New or increased groundwater abstraction Open New coastal or transitional waterbody		by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.	N/A	N/A I	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
Licence	abstraction licence Deduction of constal or transitional waterback		Not applicable. 3 Not applicable1	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N	N/A	N/A N/A	N/A N/A	N/A N/A														
Licence	Increase of coastal or transitional waterbody		Not applicable.	N/A	N/A N	V/A	N/A	N/A	N/A																						
Disalisas	Trenching and laying of pipe lines within the		Assumed that bedding material for pipelines will be constructed such that they do not form 0	0	0	0	N/A	N/A		N/A		_	N/A		_	_	N/A	N/A	N/A	1/0	0	0	N/A	N/0	•	0		2		0	
Pipelines	crossings)	nstruction	will be constructed such that they do not form U preferential pathways for groundwater flow. Assumed that bedding material for pipelines	Ů	U	U	N/A	N/A	U	N/A	U	U	N/A	U	U	Ü	N/A	N/A	N/A N	V/A	Ü	U	N/A	N/A	Ü	U	U	U	Ü	U	
Pipelines	watercourse crossings	nstruction	will be constructed such that they do not form preferential pathways for groundwater flow. Assumed that watercourse crossings will be as perpendicular to the channel as possible and carried out using a non-intrusive technique (e.g. horizontal directional drilling) with the careful management of any dewaters within launch and receiving pits and the risk that drilling fluids 'frack out' under the watercourse (e.g. bentonite) by the application of suitable pre-works risk assessments when designing the crossing. Pipeline is to be installed at a minimum depth below the natural bed of the watercourse as agreed with statutory stakeholders, but expected to be at least 1.5 m. This is to ensure that is minimal risk of any future exposure from bed scour. For more minor watercourses as greed with statutory stakeholders, but expected to be at least 1.5 m. This is to ensure that is minimal risk of any future exposure from bed scour. For more minor watercourses it may be appropriate to install the pipeline using an intrusive technique involving the temporary diversion or overpumping of the flow and excavation through the beds and bank, Locations where this is appropriate would need to be agreed with statutory consultees and would be subject to the required consents (works beneath the bed of main fivers may also require a Flood Risk Activity Permit), in addition to suitable ecology	N/A	N/A	N/A	1	1	N/A	1	N/A	N/A	1	N/A	N/A	NA	1	1	1	1	NA	N/A	1	1	N/A	N/A	N/A	NA	NA	N/A	NA .
Pipelines		nstruction	Flood risk assessment will be carried out to ensure that new in channel features will not	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Pipelines	modifications Maintenance of pipe lines Oper	eration	adversely impact on flood risk No assumed mitigations If water is crained to local watercourse, this	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pipelines	Draining of pipelines for maintenance Oper	eration	will be short term and temporary impacts only. It is assumed best practice would be followed and the source of any water in the followed and the source of any water in the present of the followed and the source of any water in the present of the followed and the source of any water in the present of the followed and the present of the stage, though it is assumed that the minimize wilk if any weekindig waterbody.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pipelines	Removal / decommissioning of existing pipeline (no watercourse crossings)	commissioning	of the pipeline, although it is assumed that any pipe sections beneath watercourses would be left in situ (assuming they are placed sufficiently deep originally that there is no risk of ever being exposed by bed scool to the pipeline, although it is assumed that	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Pipelines	Removal / decommissioning of existing pipeline (involving watercourse crossings)	commissioning	any pipe sections beneath watercourses would be left in situ (assuming they are placed sufficiently deep originally that there is no risk of ever being exposed by bed south	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Pipelines	watercourse)	nstruction	Not applicable. It is assumed that no pipe overbridges are proposed.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Pipelines	Temporary pinelines to support network		Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Pipelines	upgrades or changes Construction of reservoir (set back from	eration nstruction	Not applicable. 1 No assumed mitigations 0	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A														
Reservoir	Construction of new storage reservoir (in		Not applicable as these issues are covered by the separate WFD assessment for the	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
	line/next to watercourse - within 500m)	nstruction	proposed new South Lincolnshire Reservoir. Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Reservoir	Presence of new or modified existing storage open reservoir	eration	Not applicable as these issues are covered by the separate WFD assessment for the	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Reservoir	Modification of an existing service reservoir	nstruction	proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
	Presence of new reservoir or modified existing		proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered		N/A		N/A				N/A															N/A		N/A	N/A		
Reservoir	Watercourse Modification of an existing sensice resensoir		by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered	N/A		N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			N/A	N/A						
Reservoir	not in close proximity to watercourse Presence of new reservoir or modified existing	nstruction	by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Reservoir	service reservoir not in close proximity to Open watercourse	eration	The applicable as it less issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Reservoir	Floating or constructed shade for the reservoir		Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Reservoir	to reduce evaporation New or continuation of contractual agreement	nstruction	Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Transfer agreement	between companies to continue providing transfer with no change to abstraction licence associated	eration	Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Transfer agreement		eration	Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Transfer	abstraction licence associated Contractual agreement between companies to	eration	Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
agreement Usage changes	abstraction licence associated Impose water usage restriction under																														
and abstraction management Usage changes	emergency drought orders to business and/or Oper household	eration	Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
and abstraction management Usage changes	Communication with business or households to reduce water use in times of drought	eration	Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
and abstraction	Reduce transfer of water between water Oper companies	eration	Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
management	limiting abstractions of vulnerable sources in																														
management	times of drought and using more resilient sources more frequently. This could include switching from GW to surface water or reservoir sources. This could include resting some sources to all for recovery of supply.	eration	Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
Usage changes and abstraction management	Oper Tankering treated water between WRZ	eration	Not applicable.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
management Usage changes and abstraction	Oper	eration	Not applicable.	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
management	Tankering raw water or treated effluent Modification of an existing WTW or pumping station relating to treated water Cons	nstruction	No assumed mitigations 0	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A														
	Construction of a new WTW or pumping station relating to treated water Cons	nstruction	No assumed mitigations 0	0	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A N	V/A	N/A	N/A	0															
WTW	Pomount of existing WTW and appropriated		No assumed mitigations 0	0	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0							
	discharge Small desalination temporary unit Open	eration	Not applicable1 Not applicable. 0	N/A N/A	N/A N	N/A	N/A N/A	N/A N/A	N/A N/A																						
WTW WTW	Construction or modification of a desalination plant Cons Maintenance and use of desalination plant Oper	nstruction	Not applicable. 1 Not applicable. 0	N/A N/A	N/A I	N/A N/A	N/A N	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A		N/A N/A	N/A N/A		N/A N/A	N/A N/A	N/A N/A												
	Орог		Max impact score per	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			waterbody WB ID's																												

	Assessment Cover Information
Option ID	WFD_A2AT_Route_Western
Option Name	Western Route
Water company	SRO
Option Description	0
Assessment undertaken by [internal purposes only]	Charlie Dodd
Enough information to complete the assessment?	Yes
Waterbodies assessed	GB205033000050:Middle Level; GB105032050381:Nene - Islip to tidal; GB105032050330:Billing Brook; GB106038033460:Mimram (Whitwell to Codicote Bottom); GB106038033391:Lee (from Luton to Luton Hoo Lakes); GB105031050595:Brook Drain (including Marholm Brook); GB105033037670:Chicksands Brook; GB105033037690:Purwell; GB105033037790:Flit and Ivel Navigation d/s of Shefford; GB105033037800:Ickwell Brook; GB105033037500:Barton Brook; GB105033037530:New Inn Brook; GB105033043230:Begwary Brook; GB105033047921:Ouse (Roxton to Earith); GB105033043310:Diddington Brook; GB105033043220:Colmworth Brook; GB105033043260:Duloe Brook; GB105033043270:Kym; GB105033042870:Ellington Brook; GB105033042810:Cock Brook; GB105033042820:Alconbury Brook; GB105033042830:Ellington Brook (Trib); GB105033047923:Ouse (Newport Pagnell to Roxton); GB1050330308090:Cople Brook;
Number of waterbodies passing WFD assessment	28
Waterbodies passing WFD assessment	GB105031050595:Brook Drain (including Marholm Brook); GB105032050330:Billing Brook; GB105032050340:Stanground Lode; GB105032050381:Nene - Islip to tidal; GB105033037490:Debden Water; GB105033037540:Wicken Water; GB105033037550:Cam (Newport to Audley End); GB105033037560:Wendon Brook; GB105033037610:Rhee (DS Wendy); GB105033037820:Millbridge and Potton Brooks; GB105033038020:Whaddon Brook; GB105033038030:Mill River; GB105033038060:Mel; GB105033038100:Rhee (US Wendy); GB105033038190:Stone Brook; GB105033042810:Cock Brook; GB105033042820:Alconbury Brook; GB105033042830:Ellington Brook (Trib); GB105033042870:Ellington Brook ; GB105033043220:Colmworth Brook; GB105033043230:Begwary Brook; GB105033043240:Abbotsley and Hen Brook; GB105033043260:Duloe Brook; GB105033043270:Kym ; GB105033043310:Diddington Brook; GB105033047921:Ouse (Roxton to Earith); GB205033000050:Middle Level; GB106038040130:Stort (at Clavering);
Number of waterbodies requiring further WFD assessment	0
Waterbodies requiring further WFD assessment	N/A
Comment	N/A

Each activity has been predefined an impact score.

The maximum impact score for each waterbody determines if the waterbody requires further assessment or not.

Any waterbodies containing activities that score a 2 or 3 will require a level 2 assessment where mitigation must be demonstrated and PoM, RNAGs and any further data will be considered.

Level 1 assessment	Impact	Impact Score	Description
	Very beneficial	-2	Impacts that, taken on their own, have the potential to lead to the improvement in the ecological status or potential of a WFD quality element for the entire waterbody
	Beneficial	-1	Impacts that, when taken on their own, have the potential to lead to a minor localised or temporary improvement that does not affect the overall WFD status of the waterbody or any quality elements
Waterbody passes Level 1 WFD assessment	No/minimal	()	No measurable change in the quality of the water environment or the ability for target WFD objectives to be achieved.
	Low	1	Impacts that, when taken on their own, have the potential to lead to a minor localised, short-term and fully reversible effects on one or more of the quality elements but would not result in the lowering of WFD status. Impacts would be very unlikely to prevent any target WFD objectives from being achieved.
Waterbody requires level 2	Medium		Impacts that, when taken on their own, have the potential to lead to a widespread or prolonged effect on the quality of the water environment that may result in the temporary reduction in WFD status. Impacts have the potential to prevent target WFD objectives from being achieved.
WFD assessment	High	3	Impacts when taken on their own have the potential to lead to a significant effect and permanent deterioration of WFD status. Potential for high impact on preventing target WFD objectives from being achieved.